

XP-002308216

(C) WPI/Derwent

AN - 1995-052434 [07]

AP - ZA19940001443 19940302

CPY - EXPE-N

DC - Q79 T01 X25

FS - GMPI;EPI

IC - F42B0/00 ; F42C0/00 ; F42D0/00

IN - ELLIS J; GREYVENSTEIN R F; PATZ V E; RIGBY W W; SMITHIES S A;

SPIESSENS R W P

MC - T01-J08 X25-D02

PA - (EXPE-N) EXPERT EXPLOSIVES PTY LTD

PN - ZA9401443 A 19941130 DW199507 F42B0/00 Eng 024pp

PR - ZA19930001702 19930310

XIC - F42B-000/00 ; F42C-000/00 ; F42D-000/00

XP - N1995-041154

AB - ZA9401443 The method involves monitoring the system in order to detect a connection of a fresh detonator to the system. When the connection is detected a unique address is assigned to the fresh detonator. The system is monitored by repeatedly transmitting a test signal to all detonators in the system from a control location. The detonators to which addresses have already been assigned are configured such that they don't respond to the test signal.

- A fresh detonator transmits a second signal to the control location in response to the test signal. The signal from the fresh detonator relates to its status. The test signal cannot arm or fire any of the detonators, since it is of limited energy and is encrypted.

- ADVANTAGE - Reduced wiring required due to unique identification of detonators.

- (Dwg.1/5)

IW - INSTALLATION PROGRAM BLAST SYSTEM MINE DETECT CONNECT NEW DETONATE  
ASSIGN UNIQUE ADDRESS

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INW - ELLIS J; GREYVENSTEIN R F; PATZ V E; RIGBY W W; SMITHIES S A;  
SPIESSENS R W P

NC - 001

OPD - 1993-03-10

ORD - 1994-11-30

PAW - (EXPE-N) EXPERT EXPLOSIVES PTY LTD

TI - Installing programmable blasting system for mining - detecting  
connection of new detonator and assigning unique address to it